

HITACHI



Supplying Hitachi-GE

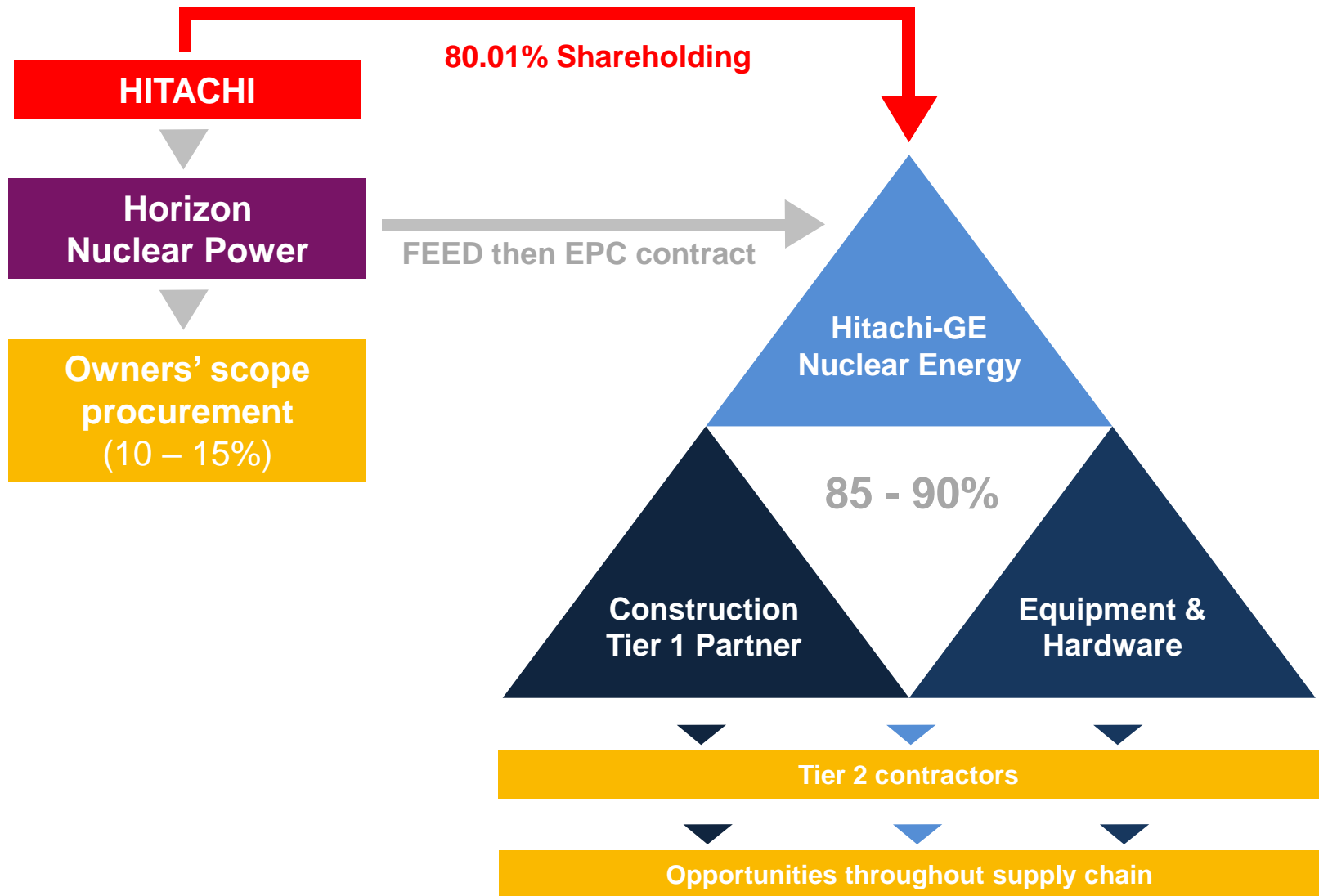
23 July 2015

Tim Davies

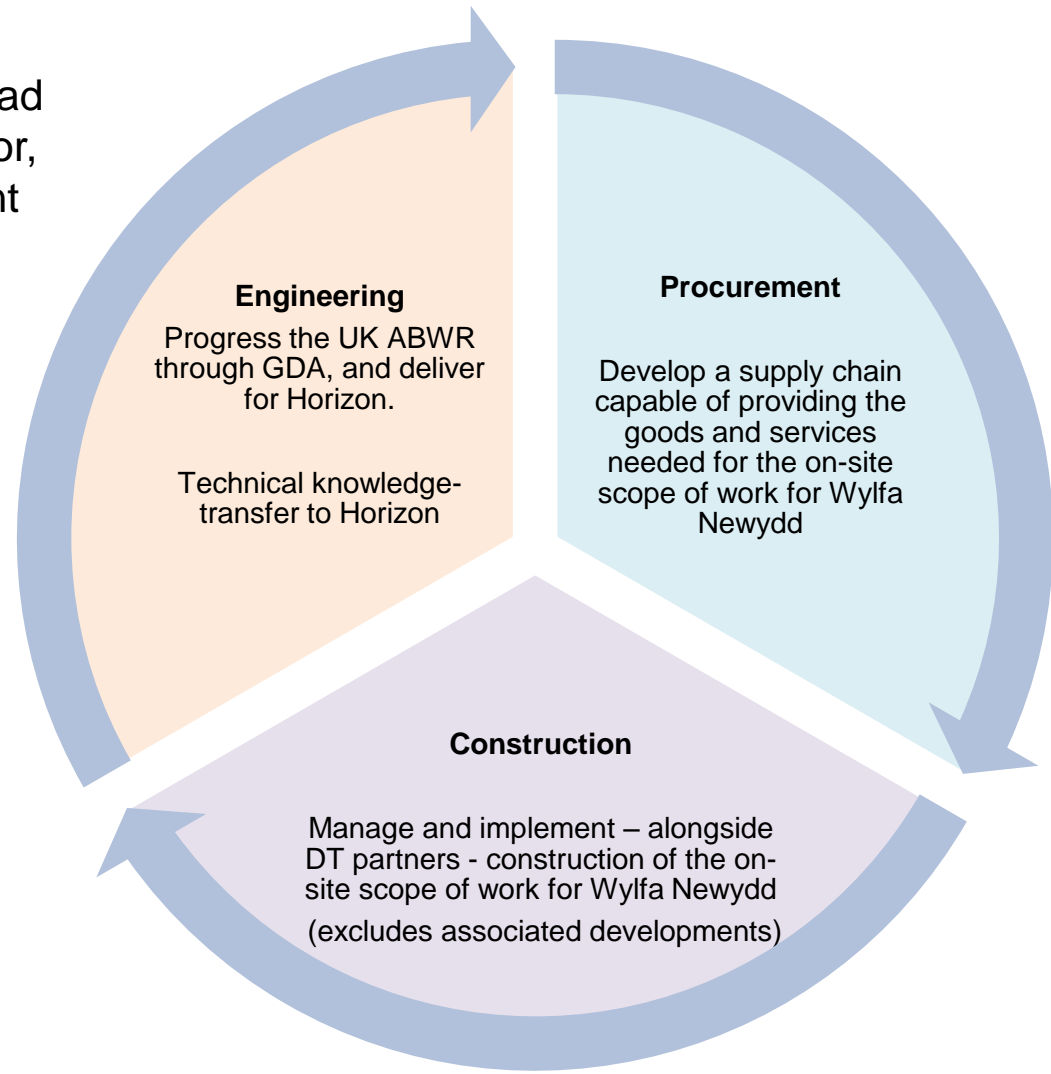
Head of UK Supply Chain

Hitachi Europe, Nuclear Power projects

Delivery team structure



- Horizon is the overall project lead – they will be the owner/operator, site licensee and DCO applicant
- Will lead on GDA related activities, and on-site procurement & construction

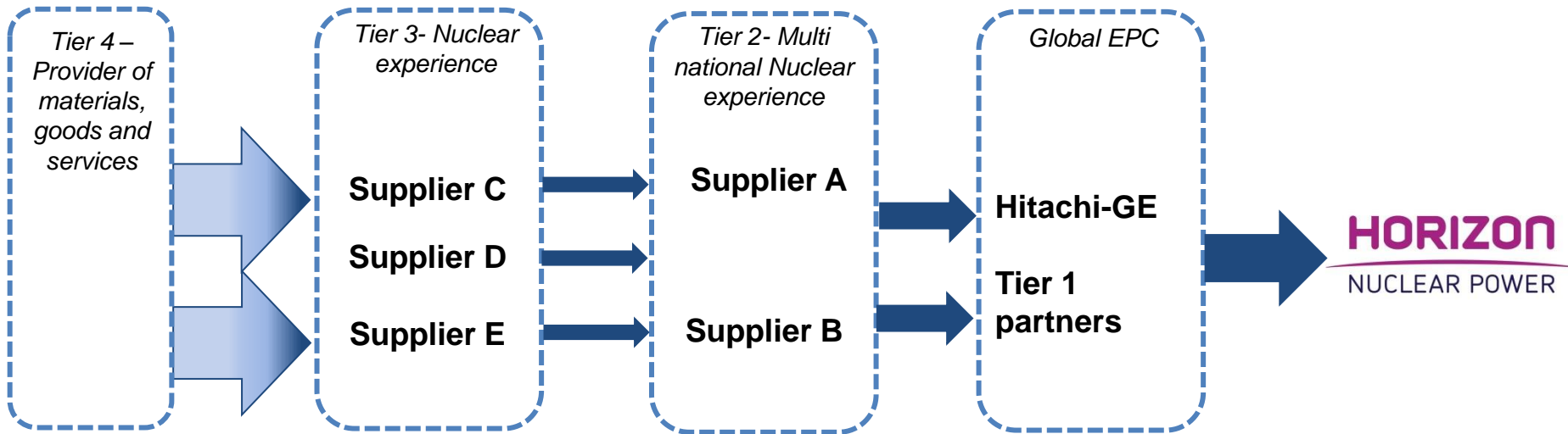


Note: summary only – exact scope subject to further definition

- *“We want to leave a positive legacy; developing a diverse supply chain of local, regional and national companies, large and small. This must be based on companies who show they really are committed to playing a role in the project, and building lasting relationships”*
- To win work on the project, suppliers should demonstrate a commitment to: Quality, Safety, Value for Money, Right First Time and Continuous Improvement.
- Every supplier must be commercially attractive



Who's your direct customer?



- Hitachi-GE (and Horizon) will look for consistent approaches, standards, behaviours and performance throughout the supply chain
- Build relationships throughout the supply chain
- Maximise the offer: fill capability gaps by developing partnerships, alliances, collaborations, JVs etc
- Build in sustainability and resilience into supply chain and help develop lower tiers where necessary

Supply Chain Opportunities

Existing Supply Chain

Nuclear Island

Reactor Pressure Vessel – RPV
Reactor Internals – RIN
Reactor Internal Pumps – RIP
RIP Motor Drives
Fine Motion Control Rod Drive – FMCRD
Hydraulic Control Units – HCU
Fuel Handling Machine - FHM
RCCV Materials
Cable Penetration
Main Class I Pipes & Valves

Turbine Island

Turbine(s)
Generator(s)

Distributed Control System – DCS

Could procure in UK – pending capability & competitiveness

Major components

Spent fuel storage pool lining
Dryer separator storage pool lining
Multiple Emergency Diesel Generators

Civil & building - with construction partner(s)

Elevators (both Temp & Permanent)

Installations - with construction partner(s)

HVAC Ductwork

Systems and equipment - with supply chain integration partner(s)

Non-Safety Piping Fabrication (100km)
Valves (non-safety related)
HVAC Equipment
Heat Exchangers (Non-safety related)
Instrument Air / Service Air Compressor
Module
Rad Waste Facility Equipment

Likely to procure in UK

Civil & building - with construction partner(s)

Materials for Concrete (270,000m3 of Concrete)
Rebar (70,000MT)
Lighting, Lightning Protection
Others (Steel Structure, Doors, Ladders, Paint,
etc.)

Installations - with construction partner(s)

Fire Detection & Protection Equipment
Cable Tray, Conduit & Other Basic Electrical
Materials
Others (Communication Systems., Lead Wool,
Paint, etc.)

General - with construction partner(s)

Construction Labour
Site Staff (Professionals & Administration)
Various Testing Services (NDI, etc.)
Scaffolding & Other Temp. Materials (Steel
Plates, etc.)
Construction Equipment (Cranes, Power
Supply, etc.)
Site Support Services (Offices, Accommodation,
Logistics, etc.)

Systems and equipment - with supply chain integration partner(s)

Supports & Hangers
Electrical Panels & Cable (Non-Critical)
Electrical Instruments (Pressure Gauges, etc.)

UK Supplier Development Programme for Unit 2

Significant progress made in establishing UK presence and developing UK supply scope:

- Tier 1 partners selection – progressing well
- Tier 2 Joint studies for Construction readiness – in 3rd and final year
- Tier 2 studies for Equipment & Hardware - capability and cost analysis underway for over two years
- Assessing Welsh Suppliers
- Engagement & Supplier Development Programme
- Supply Chain Charter
- **Directly and indirectly engaged some 200 UK companies**



- Supplier registration websites – a first step

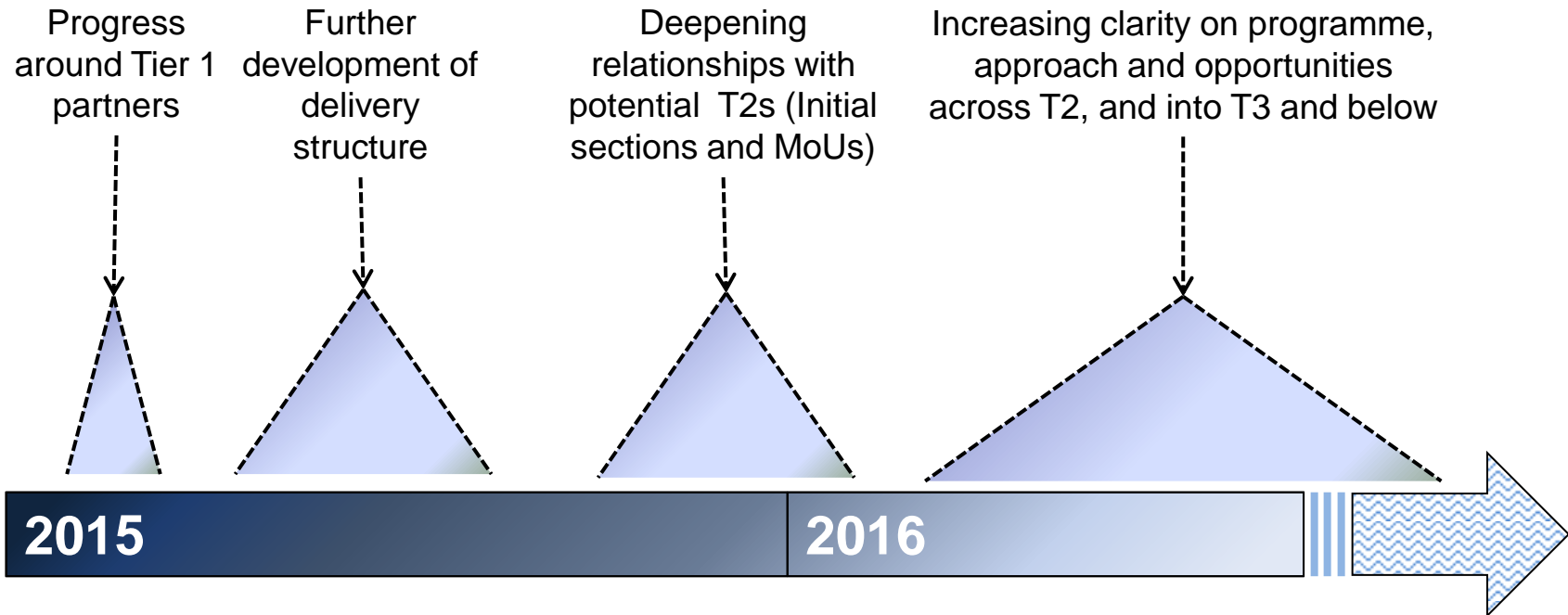
www.hitachi-hgne.co.uk

Who's going to be the first to register?

- Via direct customers – building and using industry networks
- Regular updates to industry groups and conferences – these are the best source of regular project updates



Timeframes and next steps



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**Thank you
for listening**